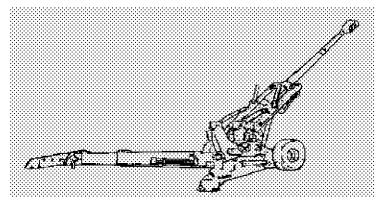
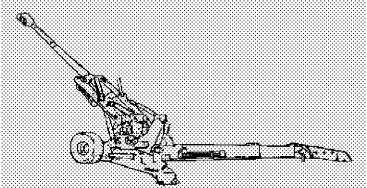
STATEMENT OF WORK FOR INSPECT, REPAIR ONLY AS NECESSARY (IROAN) OF THE HOWITZER, MEDIUM, TOWED: 155MM, M-198 NSN: 1025-01-026-6648





Prepared by

MOBILE EQUIPMENT ORDNANCE CENTER CODE 833-1 MARINE CORPS LOGISTICS BASE ALBANY, GEORGIA 31704-1128

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STATEMENT OF WORK HOWITZER, MEDIUM, TOWED: 155MM TOWED, M-198 NSN 1025-01-025-6648

- **1.0** SCOPE. This Statement of Work (SOW) and the applicable ACALA Depot Maintenance Work Requirements (DMWR) set forth tasks and identify the work efforts required for the Inspect, Repair Only as Necessary (IROAN) of the Howitzer, Medium, Towed: 155MM, M198. This document provides the minimum requirements to restore an M198 Howitzer to Condition Code "A." Refer to Appendix A, List of Definitions, for Condition Code "A" definition. The National Stock Number (NSN) listed here shall be known as the M198, Towed, Howitzer, NSN 1025-01-026-6648.
- **2.0** <u>APPLICABLE DOCUMENTS</u>. The following documents form a part of this SOW to the extent specified in section 3.0, REQUIREMENTS. Unless otherwise specified, the Contractor Facility shall use the most current edition of these documents as listed in the Department of Defense Index of Specifications (DoDISS) and any supplements thereto.

2.1 MILITARY STANDARDS.

MIL-STD-129

DoD Standard Practice for Military Marking

MILITARY STANDARDS (For Guidance Only)

MIL-STD-973

Configuration Management

2.2 OTHER GOVERNMENT DOCUMENTS AND PUBLICATIONS. The following government documents and publications form a part of this SOW to the extent specified herein. Unless otherwise specified, the issues are those cited in the SOW.

ACALA DMWR 9-1025-211-1	Depot Maintenance Work Requirement (DMWR)Cannon, M199 and Recoil Mechanism, M45, Used on Howitzer, Medium, Towed: 155MM, M198, NSN 1025-01-026-6648
ACALA DMWR 9-1025-211-2	Carriage, M39, Used on Howitzer, Medium, Towed: 155MM, M198, NSN 1025-01-026-6648
ACALA DMWR 9-1240-375-1	Quadrant, Fire Control: M17, NSN 1290-01-037-3883 and Quadrant, Fire Control: M18, NSN 1290-01-037-7289
ACALA DMWR 9-1240-375-2	Mount, Telescope and Quadrant: M171, NSN 1240-01-039-7273
ACALA DMWR 9-1240-375-3	Mount, Telescope and Quadrant: M172, NSN 1240-01-037-7290
ACALA DMWR 9-1240-375-4	Telescope, Panoramic: M137, NSN 1240-01-038-0531

ACALA DMWR 9-1240-375-5	Telescope.	Elbow:	M138	NSN	1240-0	1-038-05	30

SPI P12007650 Special Packaging Sheets (SPI)

MI-08198A-35/7 Procedures for Drilling Drain Holes in the Cradle Assembly

for the Howitzer, Medium, Towed, 155MM, M198 (U.S.

Army MWO 9-1025-211-30-1).

MI-08198A-35/3 Installation of Ring Shield on Trail Assembly

TM-4700-15/1G Ground Equipment Record Procedures

SL-3-08198A Components List for Howitzer, Medium, Towed, 155MM,

M198

DoD 4000.25-1-M MILSTRIP Manual

NAVICPINST 4491-2A Requisitioning of Contractor Furnished Materiel from the

Federal Supply System

MI-08198A-35/8 Install/Remove Hydraulic Power Assist Kit On Howitzer,

Medium, Towed, M198

2.3 INDUSTRY STANDARDS

ANSI/ISO/ASQC Q9002-1994 Quality Systems-Model for Quality Assurance Production,

Installation, and Servicing

Copies of Military Standards and Specifications are available from the DOD Single Stock Point, Defense Automation Production Service Philadelphia, Building 4D, 700 Robbins Avenue, , Philadelphia, Pa 19111-5094, Telephone (215)697-2179 or DSN 442-2179, or http://www.dodssp.daps.mil. Copies of other government documents and publications required by contractors in connection with specific SOW requirements shall be obtained from: Life Cycle Management Center, Attn 833-1, 814 Radford Blvd STE 20320, Albany, Georgia 31704-0320, commercial telephone number (912) 439-6611 or DSN 567-6611. Copies of engineering drawings, if applicable, shall be obtained from Life Cycle Management Center, Attn 825-3, 814 Radford Blvd STE 20320, Albany, Georgia 31704-0320, commercial telephone number (912) 439-6410 or DSN 567-6410.

3.0 REQUIREMENTS.

- **3.1 GENERAL TASKS**. In fulfilling specific requirements, the Contractor Facility shall:
 - a. IROAN each M198 Howitzer in accordance with the guidance listed in the:
 - -Department of Defense Index of Specifications
 - MIL-STD-129
 - -ACALA DMWR's 9-1025-211-1, 9-1025-211-2, 9-1240-375-1, 9-1240-375-2, 9-1240-375-3
 - -MI's-08198A-35/7, 08198A-35/3, 08198A-35/8

and in accordance with ANSI/ISO/ASQC Q9002-1994. Upon completion, IROAN Howitzers shall be in Condition Code "A," as described in Appendix A to this SOW.

- b. Provide materials, labor, and facilities necessary to inspect, diagnose, repair, rebuild as necessary and test the M198 Howitzer.
- c. Be responsible for all structural and mechanical requirements associated with the IROAN of the M198 Howitzer.
- **3.2 SPECIFIC TASKS.** The following tasks describe the phases of M198 Howitzer IROAN:
- 3.2.1 PHASE I INDUCTION. Induction of M198 Howitzers shall require a joint Limited Technical Inspection (LTI) to ensure the completeness of the Howitzer. A complete Howitzer for IROAN purposes will consist of the M198 Howitzer, Installed Items, and Boxed Reparable Items as listed in SL-3-08198A under heading "Supply System Responsibility." A copy of the induction LTI for each Howitzer shall be provided as a means of identification for Supply System Responsibility items, as well as the certification of a complete Howitzer to MCLB (Code B877-2) and MCLB ALBANY (Code 831-2/833-1). The Contractor Facility may induct Howitzers for IROAN if the missing items do not hinder the IROAN process. Determination of induction with missing items shall rest with the Contractor Facility. The Contractor Facility shall not be responsible for missing items identified during the joint LTI.
- **3.2.2** PHASE II IROAN. IROAN of M198 Howitzers shall be in accordance with DMWR's 9-1025-211-1, 9-1025-211-2, 9-1240-375-1, 9-1240-375-2, 9-1240-375-3, 9-1240-375-4, and 9-1240-375-5. In addition, the following requirements shall be met:
 - a. 100% rebuild of the M45 Recoil Mechanism
 - b. 100% rebuild of the Brake System
 - c. 100% rebuild of the Sighting Devices
- d. IROAN data shall be recorded on M198 Howitzer data plates in accordance with MIL-STD-129, MIL-STD-973 and in accordance with DMWR's 9-1025-211-1, 9-1025-211-2, 9-1240-375-1, 9-1240-375-2, 9-1240-375-3, 9-1240-375-4, 9-1240-375-5. TM-4700-15/1G and ANSI/ISO/ASQC Q9002-1994.
- e. The Contractor Facility shall ensure MI-08198A-35/3, Installation of Ring Shield Skid on Trail Assemblies is applied to each Howitzer.
- f. The Contractor Facility shall ensure MI-08198A-35/7, Procedures for Drilling Drain Holes in the Cradle Assembly for the Howitzer, Medium, Towed, 155MM, M198 (U.S. Army MWO 9-1025-211-30-1), is applied to each howitzer.
- g. The Contractor Facility shall ensure the Weapons Record Book is updated, reflects all approved modifications in accordance with TM-4700-15/1G, Ground Equipment Record Procedures.
- h. The Contractor Facility shall ensure MI-08198A-35/8, Install/Remove Hydraulic Power Assist Kit On Howitzer, Medium, Towed, M198, (U.S. Army MWO 9-1025-211-30-2), is applied to each howitzer once kits are available. No retrofit of completed howitzers is required.

- i. Howitzers to be painted 3-C Green.
- **3.2.3 PHASE III INSPECTION AND TESTING**. Inspection and testing shall be in accordance with:
 - -MIL-STD-129, MIL-STD-973
- -DMWR's 9-1025-211-1, 9-1025-211-2, 9-1240-375-1, 9-1240-375-2, 9-1240-375-3, 9-1240-375-4, 9-1240-375-5
 - -MI's 08198A-35/3, 08198A-35/7, 08198A-35/8
 - -TM-4700-15/1G
 - -SL-3-08198A
 - -DoD 4000.25-1-M
 - -ANSI/ISO/ASQC Q9002-1994

3.2.4 PHASE IV – Packaging, Handling, Storage and Transportation (PHS&T).

- **a.** The Contractor shall be responsible for presrvation and packing of items being repaired under the terms of this statement of work. Items scheduled for long term storage or overseas shipment shall be in accordance with level A requirements of SPI (AM) P11741103, as tailored below, which may be obtained from Materiel Management Division, Logistics Supprt Division (822-1), Suite 20320, 814 Radford Blvd, Albany, GA 31704-0320, Commercial telephone (912) 439-6786 or DSN 567-6786. Items scheduled for domestic shipment, immediate use or short-term storage shall be to level B requirements.
- (1) General Requirements, Page 5, Paragraph 4.0 of the SPI makes reference to 11.00 X 20R tires, which is incorrect. Radial tires, part number 12909220, shall be used in accordance with DMWR 9-1025-211-2 of May 97.
- (2) General Requirements, Page 5, Paragraph 6.0 of the SPI requires that the obturator group be taken apart and boxed separately. This requirement does not apply for the IROAN effort.
- (3) Detailed Requirements, Page 15, Paragraph 3.1.1 Upon completion of repair, packaging of the BII shall be the responsibility of the Repair Facility.
- (4) Discrepancies between the SPI and SL-3-08198A w/change 1 of 9 August 94, shall be resolved in favor of the SL utilizing in-house level A requirements.
 - **b.** Marking for shipment and storage shall be in accordance with MIL-STD-129.
- c. The Marine Corps will provide the contractor with the shipping address(s) for delivery of the repaired equipment. The contractor shall be responsible for arranging for shipment to the pre-designated site. The Marine Corps will be responsible for transportation costs associated with shipping the subject equipment to and from the Contractor.
- **3.3** Configuration Control. The contractor shall apply configuration control procedures to established configuration items. The contractor shall not implement configuration changes to an items's documented performance or design characteristics without receiving prior written authorization. The baseline configuration has been defined by the written procedures or material contained in manuals, standards, instructions or engineering drawings. If it is necessary to depart from the authorized configuration baseline,

the contractor shall submit a Request for Deviation. or Request for Waiver using MIL-STD-973, paragraph 5.4.3 or 5.4.4, as a guide.

3.4 QUALITY ASSURANCE/QUALITY CONTROL. The Contractor shall provide and maintain a Quality System that as a minimum, adheres to the requirements of ANSI/ISO/ASQC Q9002-1994, Quality Systems- Model for Quality Assurance in Production, Installation, and Servicing. Authorized MCLB ALBANY (Code 833-1) personnel shall be permitted to observe the work/task accomplishment at the Contractor Facility upon prior coordination with MCLB ALBANY (Code G320) and the Contractor Facility.

It shall be the responsibility of the Contractor Facility to ensure that the entire M198 Howitzer system meets the performance requirements delineated in the documents listed in 2.1, 2.2, and 2.3 of this SOW.

3.5 GOVERNMENT FURNISHED EQUIPMENT (GFE)/GOVERNMENT FURNISHED MATERIEL (GFM)

GFE is government owned equipment authorized by contract for use by a commercial/Government contractor. It is neither consumed during production not incorporated into any product. GFM is materiel furnished to a contractor that will be consumed during the course of production or incorporated into the product being manufactured/remanufactured under a contract/statement of work. In the event the Marine Corps does have GFE/GFM requirements, the Management Control Activity (MCA/Code 827-2), Marine Corps Logistics Bases, Albany, Georgia, will coordinate required GFE and will maintain a central control system on Marine Corps assets in the Contractor's possession. The MCA will forward a GFE Accountability Agreement to the Contractor for signature to establish a chain of custody and property responsibilities for the Marine Corps assets. The contractor shall report receipt of all GFM and report consumption of GFM to the MCA.

3.6 CONTRACTOR FURNISHED MATERIEL

The Marine Corps has adopted the Navy's procedures regarding Contractor Furnished Materiel (NAVICPINST 4491.2A). In the event that Contractor Furnished Materiel is required for repair parts, the contractor shall requisition through the DOD Supply System. DOD 4000.25-1-M (MILSTRIP) Chapter 11 authorizes contractors to requisition through the DOD Supply System.

- **3.7 REJECTION**. Failure to comply with any of the specified requirements listed herein shall be reason for rejection by MCLB ALBANY (Code 833-1). The Contractor Facility shall, at no additional cost to MCLB ALBANY (Code 833-1) provide the following:
 - a. Develop an approach for modification or correction of all deficiencies.
- b. Upon approval of a documented approach, the Contractor Facility shall correct the deficiencies and repeat the verification until an acceptable compliance with acceptance test procedures is demonstrated.

4.0 REPORTS.

4.1 MONTHLY PROGRESS REPORT. The Contractor Facility shall provide Monthly Progress Reports to MCLB ALBANY (Code 833-1) summarizing the progress and status of the IROAN program. The report shall be due the tenth working day of each month for the previous month in the format contained in Appendix B to this SOW.

- **4.2** <u>PRE-SHOP ANALYSIS CHECKLIST</u>. Upon receipt of a Howitzer for IROAN, a copy of the Preshop Analysis Checklist shall be forwarded to MCLB ALBANY (Code 833-1) in the format contained in Appendix C.
- **4.3** <u>FINAL ASSEMBLY AND TESTING CHECKLIST</u>. Upon delivery of a IROAN Howitzer, a copy of the Final Assembly and Testing Checklist shall be forwarded to MCLB ALBANY (Code 833-1) in the format contained in Appendix D.

STATEMENT OF WORK FOR HOWITZER, MEDIUM, TOWED: 155MM, M198 NSN 1025-01-026-6648

APPENDIX A

DEFINITIONS

1. <u>PURPOSE</u>. The definitions contained in this appendix are provided to assure a more complete understanding of the contents of this SOW.

2. **DEFINITIONS.**

- a. <u>IROAN</u>. A maintenance technique which determines the minimum repairs necessary to restore equipment, components, or assemblies to prescribed maintenance serviceability standards by utilizing all available diagnostic equipment and test procedures in order to minimize disassembly and parts replacement.
- b. <u>Rebuild</u>. The restoration of an item to a standard as nearly as possible to its original condition in appearance, performance, and life expectancy. This process requires restoring an item of supply to a serviceable condition by disassembly; inspection of each component part and reassemble, using new or serviceable assemblies, subassemblies, and parts; followed by inspection and operational tests. The terms "rebuild" and "overhaul" are synonymous.
- c. <u>Condition Code "A"</u>. Serviceable/issuable without qualification. New, used, repaired, or reconditioned material which is serviceable and issuable to all customers without limitation or restriction.
- d. <u>Contract Data Requirements List (CDRL)</u>. The CDRL is a list of data requirements authorized for a specific procurement and the sole contractual document listing the data and information to be delivered under contract.

STATEMENT OF WORK FOR HOWITZER, MEDIUM, TOWED: 155MM, M198 NSN 1025-01-026-6648

APPENDIX B

MONTHLY PROGRESS REPORT

USMC Serial Number	MWSLIN	Remarks

STATEMENT OF WORK FOR HOWITZER, MEDIUM, TOWED: 155MM, M198 NSN 1025-01-026-6648

APPENDIX C

PRE- SHOP ANALYSIS CHECKLIST

1.	<u>M199</u>	CANN	<u>ION</u>	AS	SEM:	BLY	<u>Y</u>
		4		-		^ 1	

(in accordance with DMWR 9-1025-211-1)

a. Overall condition: Inspect for broken, damaged, or missing parts.

Remarks:

- b. Gun Tube Stowage Lock:
 - (1). Inspect for broken, damaged, or missing parts.
 - (2). Operational check.

Remarks:

c. Cannon Tube: Inspect for broken, damaged, or missing parts.

Remarks:

d. Thermal Warning Device: Inspect for broken, damaged, or missing parts.

Remarks:

e. Breech Mechanism Assembly: Inspect for broken, damaged, or missing parts.

Remarks:

f. Firing Mechanism Assembly: Inspect for broken, damaged, or missing parts.

Remarks:

2. M39 Carriage Assembly:

(in accordance with DMWR 9-1025-211-2)

a. Overall Condition: Inspect for broken, damaged or missing parts.

Remarks:

b. Cradle Assembly: Inspect for broken, damaged or missing parts.

Remarks:

c. <u>Top Carriage Assembly</u>: Inspect for broken, damaged or missing parts.

Remarks:

- **d.** <u>Bottom Carriage Assembly</u>: Inspect for broken, damaged, or missing parts and functional condition as required for the following components: (OK for no discrepancies or Rmk for discrepancy and put number and discrepancy in Remarks area).
 - (1) Left/right hydraulic ram pump.
 - (2) Actuator cylinder.
 - (3) Left/right arm and spindle.
 - (4) Left/right manual brake assembly.
 - (5) Left/right brake head assembly.
 - (6) Detent.
 - (7) Clevis assembly.
 - (8) Left/right transverse stop.
 - (9) Left/right carriage spade.
 - (10) Left/right trail assembly.
 - (11) Left/right trail lock.
 - (12) Gun tube travel lock.
 - (13) Base plate.

- (14) Manifold assembly.
- (15) Locking assembly.
- (16) Tires and wheels.

Remarks:

e. Perform wheel actuator test:

Remarks:

f. Perform speed shift test:

Remarks:

3. Traversing Components:

(in accordance with DMWR 9-1025-211-2)

- a. Traversing Mechanism:
 - (1) Inspect for broken, damaged or missing parts.
 - (2) Perform hand-wheel torque test.

Remarks:

4. Bearing Sleeve Assembly:

(in accordance with DMWR 9-1025-211-1)

- **a.** Inspect for broken, damaged or missing parts.
- **b.** Perform recoil function test.

Remarks:

5. <u>Elevation Components</u>:

(in accordance with DMWR 9-1025-211-2)

a. Inspect for broken, damaged or missing parts on all components.

Remarks:

STATEMENT OF WORK FOR HOWITZER, MEDIUM, TOWED: 155MM, M198 NSN 1025-01-026-6648

APPENDIX D

FINAL ASSEMBLY AND TESTING CHECKLIST

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	Pass	Fail	Date		
		NG MECHA 25-211-1, Par		RQUE AND BACKLASH TI	EST
	Pass	Fail	Date		
		FT ASSEMB 25-211-1, Par			
	Pass	Fail	Date		
		RECOIL M 25-211-1, Par		M TEST	
	Pass	Fail	Date		
		TUATOR T 25-211-1, Par			
	Pass	Fail	Date		
		CROSS LE 25-211-1, Par		PARALLELISM TEST	
	Pass	Fail	Date		

8. HAND-BRAKE RETENTION TEST (DMWR 9-1025-211-1, Para 4-4.g)							
	Pass	_ Fail	_ Date				
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	Pass	_ Fail	_ Date				
	RAKING SY MWR 9-1025						
	Pass	_ Fail	_ Date				
	NTEGRITY MWR 9-1025		4-4.j)				
	Pass	_ Fail	_ Date				
	LEVATION MWR 9-1025		RACKING TEST 4-4.k)				
	Pass	_ Fail	_ Date				
13. F	UNCTION I	FIRING TES	ST				
	Pass	_ Fail	_ Date				
14. F	IRE CONTI	ROL TEST					
	Pass	_ Fail	_ Date				
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